

IN THE CLAIMS

Kindly amend claims 1, 8, 12 and 19 as follows.

The following is a complete listing of revised claims with a status identifier in parenthesis.

LISTING OF CLAIMS

1. (Currently Amended) A wireless communication system, comprising:
- ~~transmitter for transmitting a signal;~~
- a plurality of antennas for use by one receiver;
- a scanner adapted to scan through the plurality of antennas and ~~in turn~~ provide a signal received from each of the plurality of antennas to the receiver and to impart ~~a phase~~ Doppler modulation onto a received ~~signal;~~ signal,
- wherein one or more of the received signals from the antennas are severely degraded; and
- a receiver having direction finding ~~mean;~~ means for determining the bearing of a received signal in accordance with the phase thereof[;]],
- wherein said receiver is configured to eliminate multipath channel impairments caused at least by the severely degraded signals.

2. (Original) A wireless communication system according to claim 1; wherein a scan rate of the scanner for scanning each of the 15 plurality of antennas is at least 100 hertz.

3. (Original) A wireless communication system according to claim 1; wherein a scan rate of the scanner for the plurality of antennas is at least 2000 hertz.

4. (Original) A wireless communication system according to claim 1; wherein the plurality of antennas are equidistant from a center point.

C/ 5. (Original) A wireless communication system according to claim 4; wherein the plurality of antennas are spaced equally apart around a circumference of a circle formed about said center point.

6. (Original) A wireless communication system according to claim 1; wherein the plurality of antennas comprises at least three antennae.

7. (Original) A wireless communication system according to claim 1; wherein the scanner continuously scans and connects each of the plurality of antennae in turn to the receiver for a substantially equal period of time.

8. (Currently Amended) A method for communication in a wireless communication environment, comprising:

providing a common transceiver with a plurality of antennas;
continuously scanning through the said plurality of antennas for a substantially fixed period of time by connecting each of the plurality of

antennas ~~in turn~~ to a receiver configured to eliminate multipath channel impairments caused at least by severely degraded received signal samples in [[the]] a substantially stationary wireless communication environment and to impart ~~a phase~~ Doppler modulation onto a received signal;

determining the bearing of the received signal in accordance with the phase thereof; and

operating the plurality of antennas as a phased array during a transmit mode.

C/ 9. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment comprises a substantially stationary wireless communication environment.

10. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment comprises a wireless local area network.

11. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment is a cordless telephone.

12. (Currently Amended) A method for communication in a wireless communication environment according to claim 8; wherein the [[10]] wireless communication environment is a cordless modem.

13. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment is a wireless local loop.

C1 14. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment is a cellular telephone.

15. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment is a PCS telephone.

16. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment is a trunked mobile radio system.

17. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the wireless communication environment is a mobile satellite communications system.

18. (Original) A method for communication in a wireless communication environment according to claim 8; wherein the step of continuously scanning connects each of the plurality of antennas to the receiver at least 100 times per second.

C1 19. (Currently Amended) A method for communication in a wireless communication environment according to claim 8; wherein the step of continuously scanning connects each of the plurality [[10]] of antennas to the receiver at least 2000 times per second.

20. (Original) A method for communication in a wireless communication environment according to claim 8; further comprising the step of locating each of the plurality of antennas substantially equidistant from a center point.

21. (Original) A method for communication in a wireless communication environment according to claim 20; wherein the plurality of antennas are spaced equally apart around a circumference of a circle formed about the center point.
